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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,600	05/19/2008	Bosong Li	291903-1040	9893
73232 SCIHEAD IN	7590 06/23/200 FELLECTUAL PROPE	9 RTY LAW GROUP, LTD	EXAM	MINER
Huihua Commercial & Trade Building, Suite 1508 80 Xian Lie Zhong Road Guangzhou, 51070 CHINA			ANGLO, LHEIREN MAE ACOSTA	
			ART UNIT	PAPER NUMBER
			2833	
			MAIL DATE	DELIVERY MODE
			06/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/589,600	LI, BOSONG	
Examiner	Art Unit	
LHEIREN MAE A. ANGLO	2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.

 If NO period for roply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

 Failure to reply within the set or extended period for roply will. by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status	s		
1)🛛	Responsive to communication(s) filed on <u>07 May 2009</u> .		
2a)) This action is FINAL . 2b) This action is non-final.		
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as	to the merits is	
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		

Disposition of Claims

4)⊠	Claim(s) <u>7-24</u> is/are pending in the application.
	4a) Of the above claim(s) is/are withdrawn from consideration.
5)🛛	Claim(s) 7-16 and 18-23 is/are allowed.
6)[Claim(s) is/are rejected.
7)🛛	Claim(s) 17 and 24 is/are objected to.
8)П	Claim(s) are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

a) All b) Some * c) None of:

- 10) The drawing(s) filed on 16 August 2006 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.🖂	Copies of the certified copies of the priority documents have been received in this National Stage

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Attachment(s)		
1) ☑ Notice of References Cited (PTO-982) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Sciencement(s) (PTO/SB/06) Paper Not(s)/Mail Date 20060816.	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) I-fulled of Informal Patent Application 6) Other:	

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DETAILED ACTION

Election/Restrictions

The restriction requirement as set forth in the Office action mailed on 04/09/09 has been withdrawn. All of the claims have been examined on the merits.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d)..

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the gear-receiving hole and opening of claim 12, the through hole of claim 14 and the post and hole of claim 15 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate

changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Specification

The disclosure is objected to because indicators to the missing features in the drawings will need to be added.

Appropriate correction is required.

Claim Objections

Claim 17 is objected to because it is dependent on claim 15 which teaches four gears not three gears as taught in claim 16. Appropriate correction is required.

Claim 24 is objected to because it is dependent on claim 15 which teaches four rack supporting members not three rack supporting members as taught in claim 24.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: claims 7-16 and 18-23 are allowed over the prior art of record.

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In regard to claims 7 and 16, among other limitations, the holder member having three or four pairs of shafts disposed thereon, the three or four gears being respectively rotatably assembled to the three or four pairs of shafts, the key top forming at least three or four rack supporting members on a bottom thereof, wherein the at least three or four rack supporting members are respectively parallel to corresponding gears and engage with corresponding gears to provide the upward and downward movement for the key switch are neither disclosed nor suggested by the prior art of record. Claims 8-15 and 18-23 are either directly or indirectly dependent on claim 7.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

In regard to the cited prior art, Nishino et al. [US 7,138,587], Sato et al. [US 6,586,695], Sato et al. [US 6,371,671], and Pan [US 6,060,676] are pertinent because they teach: a key top; holder member; gears; a spring member; a film circuit board; and a supporting member. Sato et al. [US 6,586,695] is pertinent art because it teaches: a key top; holder member; gears; a spring member; a film circuit board; and a supporting member.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LHEIREN MAE A. ANGLO whose telephone number is Application/Control Number: 10/589,600

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(571)272-2730. The examiner can normally be reached on Monday to Friday 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Renee Luebke can be reached on (571) 272-2009. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. A. A./ Examiner, Art Unit 2833

/renee s luebke/
Renee Luebke
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